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CENTRAL INTELLIGENCE AGENCY

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REPORT

CD NO.

STAT

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SOURCE Promyshlennaya Energetika, No 10, 1950, inside back cover.

HANDBOOK OF THE PLANT POWER ENGINEER. SHEET 58. (CONTROL-MEASURING INSTRUMENTS)

Compiled by Engr R. Ye. Gel'man

1. Moscow State Instruments Plant, Ministry of Machine and Instrument Building (continued)

VCh. Frequency meters, vibration-type, stationary. For ac frequency measurements between 45 and 55 cps in 127, 220, 380 and 500 v circuits (directly connected). Diameter of case 225 mm, height 106 mm (case) + [illegible] mm (terminals). Weight 2.1 kg.

EBS. Synchroscopes, electromagnetic. To indicate the instant of synchronization in connecting two or more 3-phase generators (circuits). Rated voltage 127, 220, 380 and 500 v. Case: diameter 225 mm, height 97 mm. Weight 2.3 kg.

ENF. Phase meters, electromagnetic, standard. To measure the power factor in 3-phase circuits, 50 cps, with uniform phase loading. Rated voltage 127, 220, 380 and 500 v. Diameter 185, height 73 mm (case) + 47 mm (terminals).

The instruments enumerated above are all of the stationary type. Distances between mounting bolts are as follows: for large instruments (case diameter 225 mm) -- 208 mm, horizontal; for standard instruments (case diameter 185 mm) -- 165 mm, horizontal; for small instruments (case diameter 135 mm) -- 115 mm, horizontal; for miniature instruments (case diameter 110 mm) -- 80 mm, vertical.

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2. Elektropul't Plant, Ministry of Electri. Power Stations

The dc instruments utilize actuating mechanisms (izmeriteli) of the type manufactured by GMZP, Ministry of Machine and Instrument Building. These mechanisms, as well as shunts for ammeters, must be furnished by the customer.

M-A. Ammeters, moving-coil. For dc circuits, with magnetic damping. Accuracy Class 1.5. Maximum measurement 1-50 amp (directly connected) and 75-5,000 amp (with external shunt). Winding resistance 2.5 Ω (ammeters with external shunt 45 mv). Dimensions: 147 mm (width) x 172 mm (height) x 82.5 mm (depth of instrument) + 15 mm (length of terminals). Weight 1.45 kg.

MM-A. Ammeters, moving-coil, small. /Production stopped/. For dc circuits. Accuracy Class 1.5. Maximum measurements, with direct connection, up to 10 amp. Dimensions: 100 x 100 (width and height) x) mm (depth of instrument) + 23 mm (terminals). Weight 0.95 kg.

M-V. Voltmeters, moving-coil. For dc circuits, with magnetic damping. Accuracy Class 1. Maximum measurements 15-600 v. Winding resistance of 150 v voltmeters, 20,000 Ω; of 250 v voltmeters, 40,000 Ω . Dimensions and weight same as for Type M-A ammeters.

MM-V. Voltmeters, moving-coil, small. /Production stopped/. For dc circuits. Accuracy Class 1. Dimensions and weight same as for Type MM-A ammeters.

E-A. Ammeters, moving-iron. For ac circuits. Accuracy Class 2.5. Maximum measurements 1-50 amp (directly connected), 5-15,000 amp (with current transformers). Winding resistance for 5-amp ammeter, 0.065 Ω . Dimensions same as for Type M-A ammeters. Weight 0.97 kg.

EM-A. Ammeters, moving-iron, small. /Production stopped/. For ac circuits. Accuracy Class 2.5. Dimensions same as for Type MM-A ammeters. Weight 0.54 kg.

E-V. Voltmeters, moving-iron. For ac circuits. Accuracy Class 2.5. Maximum measurements: 15-600 v (directly connected), 0.45-260 kv (with voltage transformers). Winding resistance for 120-v voltmeter, 2,150 Ω . Dimensions same as for Type M-A ammeters. Weight 1.15 kg.

EM-V. Voltmeters, moving-iron, small. /Production stopped/. For ac circuits. Accuracy Class 2.5. Dimensions same as for Type MM-A ammeters, except that depth of instruments is 75.5 (instead of 69 mm). Weight 0.54 kg.

FD-VA. Wattmeters, ferrodynamic. For measurement of active power, with magnetic damping. Accuracy Class 2.5 at 5 amp and 100 v. Resistance of series winding -- 0.05 Ω ; parallel windings -- 6,300 Ω. Dimensions same as for Type M-A ammeters, except that the depth of the instruments is 87 mm (instead of 82.5 mm). Weight 1.4 kg.

FD-VR. Wattmeters, ferrodynamic. For measurement of reactive power, with magnetic damping. Accuracy Class 2.5. Resistance of series winding -- 0.05 Ω ; parallel winding -- 3,600 Ω . Dimensions same as for Type FD-VA wattmeters. Weight 1.5 kg.

FD-VAR. Wattmeters, ferrodynamic. For measurement of active and reactive power, with magnetic damping. Accuracy Class 2.5. Dimensions same as for Type FD-VA wattmeters. Weight 1.6 kg.

FD-F. Phase meters, ferrodynamic. With magnetic damping. Accuracy Class 2.5 at 5 amp and 100 v. Resistance of series winding -- 0.13 Ω ; parallel windings -- 3,600 Ω . Dimensions same as for Type FD-VA wattmeters. Weight 1.5 kg.

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